

SEQUENCE LISTING

<110> JAPAN SCIENCE AND TECHNOLOGY CORPORATION

<120> Receptor proteins specifically recognizing bacterial DNA

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<150> 2000-219652

<151> 2000-07-19

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<170> PatentIn Ver. 2.1

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 Asn Lys Leu Asp Leu Tyr His Trp Lys Ser Phe Ser Glu Leu Pro Gln
 535 540 545

ttg cag gcc ctg gac ctg agc tac aac agc cag ccc ttt agc atg aag 1795
 Leu Gln Ala Leu Asp Leu Ser Tyr Asn Ser Gln Pro Phe Ser Met Lys
 550 555 560

ggt ata ggc cac aat ttc agt ttt gtg gcc cat ctg tcc atg cta cac 1843
 Gly Ile Gly His Asn Phe Ser Phe Val Ala His Leu Ser Met Leu His
 565 570 575

agc ctt agc ctg gca cac aat gac att cat acc cgt gtg tcc tca cat 1891
 Ser Leu Ser Leu Ala His Asn Asp Ile His Thr Arg Val Ser Ser His

580	585	590	595	
ctc aac agc aac tca gtg agg ttt ctt gac ttc agc ggc aac ggt atg				1939
Leu Asn Ser Asn Ser Val Arg Phe Leu Asp Phe Ser Gly Asn Gly Met				
	600	605	610	
ggc cgc atg tgg gat gag ggg ggc ctt tat ctc cat ttc ttc caa ggc				1987
Gly Arg Met Trp Asp Glu Gly Gly Leu Tyr Leu His Phe Phe Gln Gly				
	615	620	625	
ctg agt ggc ctg ctg aag ctg gac ctg tct caa aat aac ctg cat atc				2035
Leu Ser Gly Leu Leu Lys Leu Asp Leu Ser Gln Asn Asn Leu His Ile				
	630	635	640	
ctc cgg ccc cag aac ctt gac aac ctc ccc aag agc ctg aag ctg ctg				2083
Leu Arg Pro Gln Asn Leu Asp Asn Leu Pro Lys Ser Leu Lys Leu Leu				
	645	650	655	
agc ctc cga gac aac tac cta tct ttc ttt aac tgg acc agt ctg tcc				2131
Ser Leu Arg Asp Asn Tyr Leu Ser Phe Phe Asn Trp Thr Ser Leu Ser				
	660	665	670	675
ttc ctg ccc aac ctg gaa gtc cta gac ctg gca ggc aac cag cta aag				2179
Phe Leu Pro Asn Leu Glu Val Leu Asp Leu Ala Gly Asn Gln Leu Lys				
	680	685	690	
gcc ctg acc aat ggc acc ctg cct aat ggc acc ctc ctc cag aaa ctg				2227
Ala Leu Thr Asn Gly Thr Leu Pro Asn Gly Thr Leu Leu Gln Lys Leu				
	695	700	705	
gat gtc agc agc aac agt atc gtc tct gtg gtc cca gcc ttc ttc gct				2275
Asp Val Ser Ser Asn Ser Ile Val Ser Val Val Pro Ala Phe Phe Ala				
	710	715	720	
ctg gcg gtc gag ctg aaa gag gtc aac ctc agc cac aac att ctc aag				2323
Leu Ala Val Glu Leu Lys Glu Val Asn Leu Ser His Asn Ile Leu Lys				
	725	730	735	
acg gtg gal cgc tcc tgg ttt ggg ccc att gtg atg aac ctg aca gtt				2371
Thr Val Asp Arg Ser Trp Phe Gly Pro Ile Val Met Asn Leu Thr Val				
	740	745	750	755
cta gac gtg aga agc aac cct ctg cac tgt gcc tgt ggg gca gcc ttc				2419
Leu Asp Val Arg Ser Asn Pro Leu His Cys Ala Cys Gly Ala Ala Phe				
	760	765	770	

gta gac tta ctg ttg gag gtg cag acc aag gtg cct ggc ctg gct aat 2467
Val Asp Leu Leu Leu Glu Val Gln Thr Lys Val Pro Gly Leu Ala Asn
775 780 785

ggt gtg aag tgt ggc agc ccc ggc cag ctg cag ggc cgt agc atc ttc 2515
Gly Val Lys Cys Gly Ser Pro Gly Gln Leu Gln Gly Arg Ser Ile Phe
790 795 800

gca cag gac ctg cgg ctg tgc ctg gat gag gtc ctc tct tgg gac tgc 2563
Ala Gln Asp Leu Arg Leu Cys Leu Asp Glu Val Leu Ser Trp Asp Cys
805 810 815

ttt ggc ctt tca ctc ttg gct gtg gcc gtg ggc atg gtg gtg cct ata 2611
Phe Gly Leu Ser Leu Leu Ala Val Ala Val Gly Met Val Val Pro Ile
820 825 830 835

ctg cac cat ctc tgc ggc tgg gac gtc tgg tac tgt ttt cat ctg tgc 2659
Leu His His Leu Cys Gly Trp Asp Val Trp Tyr Cys Phe His Leu Cys
840 845 850

ctg gca tgg cta cct ttg ctg gcc cgc agc cga cgc agc gcc caa gct 2707
Leu Ala Trp Leu Pro Leu Leu Ala Arg Ser Arg Arg Ser Ala Gln Ala
855 860 865

ctc ccc tat gat gcc ttc gtg gtg ttc gat aag gca cag agc gca gtt 2755
Leu Pro Tyr Asp Ala Phe Val Val Phe Asp Lys Ala Gln Ser Ala Val
870 875 880

gcg gac tgg gtg tat aac gag ctg cgg gtg cgg ctg gag gag cgg cgc 2803
Ala Asp Trp Val Tyr Asn Glu Leu Arg Val Arg Leu Glu Glu Arg Arg
885 890 895

ggt cgc cga gcc cta cgc ttg tgt ctg gag gac cga gat tgg ctg cct 2851
Gly Arg Arg Ala Leu Arg Leu Cys Leu Glu Asp Arg Asp Trp Leu Pro
900 905 910 915

ggc cag acg ctc ttc gag aac ctc tgg gct tcc atc tat ggg agc cgc 2899
Gly Gln Thr Leu Phe Glu Asn Leu Trp Ala Ser Ile Tyr Gly Ser Arg
920 925 930

aag act cta ttt gtg ctg gcc cac acg gac cgc gtc agt ggc ctc ctg 2947
Lys Thr Leu Phe Val Leu Ala His Thr Asp Arg Val Ser Gly Leu Leu
935 940 945

cgc acc agc ttc ctg ctg gct cag cag cgc ctg ttg gaa gac cgc aag 2995
Arg Thr Ser Phe Leu Leu Ala Gln Gln Arg Leu Leu Glu Asp Arg Lys

65		70		75		80
Ser	Asp	Phe	Val	His	Leu	Trp
		85		90		95
Asn	Cys	Pro	Pro	Thr	Gly	Met
		100		105		110
Thr	Ile	Glu	Pro	Arg	Thr	Leu
		115		120		125
Asn	Leu	Ser	Tyr	Asn	Gly	Ser
		130		135		140
Leu	Val	Asn	Leu	Ser	Leu	Ala
145				150		160
Asn	Ser	Leu	Ala	Gly	Leu	Tyr
				165		175
Asn	Cys	Tyr	Tyr	Lys	Asn	Pro
				180		190
Gly	Ala	Leu	Leu	Gly	Leu	Ser
				195		205
Asn	Asn	Leu	Thr	Lys	Val	Pro
				210		220
Leu	Leu	Val	Ser	Tyr	Asn	Leu
225				230		240
Ala	Asn	Leu	Thr	Ser	Leu	Arg
				245		255
Arg	Cys	Asp	His	Ala	Pro	Asn
				260		270
Leu	His	Leu	His	Pro	Glu	Thr
				275		280
Leu	Val	Leu	Lys	Asp	Ser	Ser
				290		300
Gln	Gly	Leu	Val	Asn	Leu	Ser
305				310		320
Tyr	Glu	Ser	Ile	Asn	His	Thr
				325		335
Arg	Lys	Leu	Asn	Leu	Ser	Phe
				340		350
Arg	Leu	His	Leu	Ala	Ser	Ser
				355		365
Leu	Asn	Met	Asn	Gly	Ile	Phe
				370		380
Arg	Trp	Leu	Ala	Asp	Leu	Pro
385				390		400
Asn	Phe	Ile	Asn	Gln	Ala	Gln
				405		415
Leu	Arg	Phe	Val	Asp	Leu	Ser
				420		430
Leu	Ser	Glu	Ala	Thr	Pro	Glu

435 440 445
 Leu Leu Ser Ala Asp Pro His Pro Ala Pro Leu Ser Thr Pro Ala Ser
 450 455 460
 Lys Asn Phe Met Asp Arg Cys Lys Asn Phe Lys Phe Thr Met Asp Leu
 465 470 475 480
 Ser Arg Asn Asn Leu Val Thr Ile Lys Pro Glu Met Phe Val Asn Leu
 485 490 495
 Ser Arg Leu Gln Cys Leu Ser Leu Ser His Asn Ser Ile Ala Gln Ala
 500 505 510
 Val Asn Gly Ser Gln Phe Leu Pro Leu Thr Asn Leu Gln Val Leu Asp
 515 520 525
 Leu Ser His Asn Lys Leu Asp Leu Tyr His Trp Lys Ser Phe Ser Glu
 530 535 540
 Leu Pro Gln Leu Gln Ala Leu Asp Leu Ser Tyr Asn Ser Gln Pro Phe
 545 550 555 560
 Ser Met Lys Gly Ile Gly His Asn Phe Ser Phe Val Ala His Leu Ser
 565 570 575
 Met Leu His Ser Leu Ser Leu Ala His Asn Asp Ile His Thr Arg Val
 580 585 590
 Ser Ser His Leu Asn Ser Asn Ser Val Arg Phe Leu Asp Phe Ser Gly
 595 600 605
 Asn Gly Met Gly Arg Met Trp Asp Glu Gly Gly Leu Tyr Leu His Phe
 610 615 620
 Phe Gln Gly Leu Ser Gly Leu Leu Lys Leu Asp Leu Ser Gln Asn Asn
 625 630 635 640
 Leu His Ile Leu Arg Pro Gln Asn Leu Asp Asn Leu Pro Lys Ser Leu
 645 650 655
 Lys Leu Leu Ser Leu Arg Asp Asn Tyr Leu Ser Phe Phe Asn Trp Thr
 660 665 670
 Ser Leu Ser Phe Leu Pro Asn Leu Glu Val Leu Asp Leu Ala Gly Asn
 675 680 685
 Gln Leu Lys Ala Leu Thr Asn Gly Thr Leu Pro Asn Gly Thr Leu Leu
 690 695 700
 Gln Lys Leu Asp Val Ser Ser Asn Ser Ile Val Ser Val Val Pro Ala
 705 710 715 720
 Phe Phe Ala Leu Ala Val Glu Leu Lys Glu Val Asn Leu Ser His Asn
 725 730 735
 Ile Leu Lys Thr Val Asp Arg Ser Trp Phe Gly Pro Ile Val Met Asn
 740 745 750
 Leu Thr Val Leu Asp Val Arg Ser Asn Pro Leu His Cys Ala Cys Gly
 755 760 765
 Ala Ala Phe Val Asp Leu Leu Leu Glu Val Gln Thr Lys Val Pro Gly
 770 775 780
 Leu Ala Asn Gly Val Lys Cys Gly Ser Pro Gly Gln Leu Gln Gly Arg
 785 790 795 800
 Ser Ile Phe Ala Gln Asp Leu Arg Leu Cys Leu Asp Glu Val Leu Ser

